

ADDITIONAL SITE INVESTIGATION REPORT



Newell Maintenance Station Modoc County, California

PREPARED FOR:

**CALIFORNIA DEPARTMENT OF TRANSPORTATION
DISTRICT 3
P.O. BOX 911
MARYSVILLE, CALIFORNIA 95901**



PREPARED BY:

**GEOCON CONSULTANTS, INC.
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RANCHO CORDOVA, CALIFORNIA 95742**



**GEOCON PROJECT NO. S8875-06-81
TASK ORDER NO. 81, CONTRACT NO. 03A0937**

MAY 2006



Project No. S8875-06-81
May 23, 2006

Mr. Doug Coleman
California Department of Transportation
District 3
P.O. Box 911
Marysville, California 95901

Subject: NEWELL MAINTENANCE STATION
NEWELL, MODOC COUNTY, CALIFORNIA
CONTRACT NO. 03A0937
TASK ORDER NO. 81
ADDITIONAL SITE INVESTIGATION REPORT

Dear Mr. Coleman:

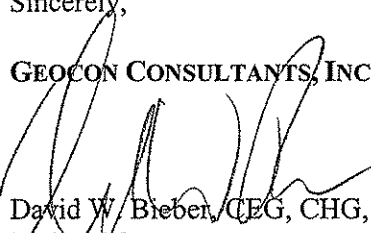
In accordance with the California Department of Transportation (Caltrans) Contract No. 03A0397 and Task Order (TO) No. 81, we have performed additional site investigation (ASI) activities at the Caltrans Newell Maintenance Station located in Newell, Modoc County, California (the Site). The ASI was performed in response to written directive from the North Coast Regional Water Quality Control Board as transmitted to Caltrans in an e-mail dated February 8, 2006.

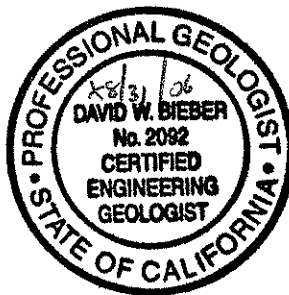
The purpose of the scope of services outlined in TO No. 81 was to provide additional information regarding the nature and extent of soil and groundwater impacts at the Site and to determine the location and/or status of well MW-4. The requested scope of services included the performance of direct-push soil borings to facilitate the collection of soil and groundwater samples for chemical analysis.


Please contact us if there are any questions concerning the contents of this Report or if we may be of further service.

Sincerely,

GEOCON CONSULTANTS, INC.


David W. Bieber, CEG, CHG, PGP
Project Manager




West J. Bourgault
Project Geologist

WJB:DWB:jaj

(3 + 2 CD) Addressee
(1) North Coast Regional Water Quality Control Board, Mr. Ronald Allen

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ADDITIONAL SITE INVESTIGATION REPORT

1.0 INTRODUCTION

This Additional Site Investigation (ASI) Report was prepared for the California Department of Transportation (Caltrans) Newell Maintenance Station located in Newell, Modoc County, California under Caltrans Contract No. 03A0937 and Task Order (TO) No. 81.

1.1 Project Location and Description

The Site is the Caltrans Newell Maintenance Station located east of State Highway 139 on the north side of County Road 176 in the town of Newell, Modoc County, California. The approximate site location is depicted on the Vicinity Map, Figure 1. The Site consists of the fenced 6-acre Caltrans Newell Maintenance Station located within an approximately 21-acre parcel owned by Caltrans, which was a motor pool area for the former Tule Lake Internment Camp (the Camp). The 21-acre parcel includes the Site and a separately fenced 15-acre parcel which served as a former Modoc County maintenance facility (surplus property) and includes an historic former stockade building (formerly situated within a separate fenced portion of the surplus property). Additional investigation activities are currently proposed for that portion of the surplus property that was used by Modoc County and which includes two historical motor pool buildings, loading docks, and an historical storage building (Motor Pool Area). However, additional investigation activities are pending the completion of an Extended Phase I Archaeology Study (Archaeological Study). The Archaeological Study is anticipated to be completed in the fall of 2006. The 21-acre facility is depicted on the Historical Facility Map, Figure 2. The features within the Site and the adjacent Motor Pool Area are further depicted on the Area Map, Figure 3.

1.2 Background

The following background information was provided to us by Caltrans.

The Camp was used to house Japanese-Americans during World War II and is currently listed as both a State of California and a Federal Historic Monument. Caltrans has declared those Caltrans-owned portions of the Camp outside of the Site as surplus property. Under the agreement through which Caltrans acquired the property from the Federal government, those portions of the 21-acre parcel which become surplus property revert to Federal ownership. Caltrans is working with local historical societies and the Federal government to develop a plan to preserve the remnants of the Camp located on the surplus property as a National Historic Landmark.

The Camp Motor Pool Area has been used by Caltrans since the 1950s. Caltrans occupied one of the historic motor pool structures until 1993, when new maintenance facilities (the Site) were constructed

adjacent to the existing historic structures. Subsequent to the construction of the Site in 1993, one of the Camp motor pool buildings was leased to the Modoc County Road Department and was jointly used by them and the local abatement district. In 2003, Modoc County moved their operations to new offsite facilities and vacated the premises. The Caltrans surplus property portion of the Camp is currently unoccupied.

In August 1990, one 3,000-gallon diesel fuel underground storage tank (UST) and one 2,000-gallon unleaded gasoline fuel UST were removed from the Site. The former USTs were located southeast of the existing sand storage building. Since the tanks were side by side, removal of the USTs resulted in a single large UST excavation. The results of laboratory analysis on soil samples obtained from beneath the USTs upon removal indicated the presence of gasoline and diesel-range petroleum hydrocarbon impacts. Groundwater was encountered at an approximate depth of 10.5 feet (ft) below the ground surface (bgs) within the UST excavation. The groundwater was observed to be impacted by petroleum hydrocarbons.

CKY, Inc. subsequently performed a site investigation to evaluate the extent of petroleum hydrocarbon impacts to soil and groundwater resulting from the former UST refueling system. The site investigation included a shallow soil gas survey and the performance of 25 soil borings of which six were converted into groundwater monitoring wells (MW-1 through MW-6). Total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd), and motor oil (TPHmo) were detected in five of the six soil borings.

The results of groundwater monitoring activities performed in March and June 1992 indicated depths to groundwater ranging from 7.55 to 9.19 ft bgs. The groundwater flow direction was reported to be to the east and northeast at a gradient of 0.002. Dissolved-phase gasoline and diesel-range petroleum hydrocarbons were generally detected in well MW-1 (located within the tank excavation) and in downgradient wells MW-4 and MW-5. Wells MW-1, MW-2, MW-3, MW-5 and MW-6 were reportedly destroyed in July 1992. The status of well MW-4 is not known. The approximate former monitoring well locations are depicted on Figure 3. A Summary of Historical Groundwater Analytical Results is presented in Table 1.

Approximately 13,000 cubic yards of petroleum hydrocarbon-impacted soil were excavated in the vicinity of the former USTs and stockpiled onsite in August 1992. The soil was placed in a bioremediation cell in 1992 and was remediated by 1996. After successful remediation and receipt of approval from the North Coast Regional Water Quality Control Board (NCRWQCB), the soil was utilized as fill for a highway widening project. The approximate remedial excavation boundaries are depicted on Figure 3.

After the impacted soil was excavated, one of twenty-one confirmation soil samples obtained from the remedial excavation contained detectable TPHg and TPHd at concentrations of 10 and 48 milligrams per kilogram (mg/kg), respectively. TPHmo was detected in two of twenty-one soil samples at concentrations of 11 and 28 mg/kg. A Summary of Analytical Results for Excavation Confirmation Soil Samples is presented in Table 2.

In September 1998, Geocon performed ten direct-push soil borings in the vicinity of the remedial excavation and collected soil and groundwater samples for analytical testing. Groundwater was encountered at depths between 5.25 and 7.55 ft bgs. TPHg, TPHd, TPHmo, benzene and toluene were not reported above their respective laboratory method detection limits in the samples submitted from the September 1998 drilling activities. Ethylbenzene was reported in one soil sample at a concentration of 8.7 micrograms per kilogram ($\mu\text{g/kg}$). Total xylenes were detected in four soil samples at concentrations ranging from 5.9 to 71 $\mu\text{g/kg}$. A Summary of the Soil Analytical Results is presented in Table 3. TPHg was reported for the groundwater sample collected from boring B4(MS) at 0.2 milligrams per liter (mg/l). TPHd was reported in each of the groundwater samples at concentrations ranging from 1.4 to 1.8 mg/l. TPHd was also detected in the method blank at a concentration of 1.2 mg/l. The laboratory acknowledged that laboratory contamination was present during the analyses. Toluene was reported in the groundwater samples collected from borings B4(MS) and B9 at respective concentrations of 16 and 0.7 micrograms per liter ($\mu\text{g/l}$). Ethylbenzene was reported for the sample collected from boring B4(MS) in one groundwater sample at a concentration of 8.2 $\mu\text{g/l}$. Total xylenes was reported for four groundwater samples at concentrations ranging from 0.7 (B2) to 41 $\mu\text{g/l}$ (B4). Methyl tert-butyl ether (MTBE) was reported for the groundwater samples collected for borings B7(MS) and B10 at respective concentrations of 4.3 and 3.4 $\mu\text{g/l}$. Various phases of investigations have been performed at the surplus property and at the Caltrans Newell Maintenance Station resulting in duplicate boring numbers. For this report, borings performed at the surplus property are differentiated with an (SP) notation and borings performed at the Caltrans Newell Maintenance Station are differentiated with an (MS) notation.

Per the request of Caltrans and the NCRWQCB, Geocon re-sampled groundwater at nine of the ten previous direct-push soil boring locations for reanalysis of TPHd in November 1998. TPHd was reported in each groundwater sample at concentrations ranging from 0.07 to 0.2 mg/l. The laboratory report noted that the TPHd reported for each sample is likely weathered diesel or fuel oil. A Summary of Groundwater Analytical Results is presented in Table 4.

1.3 Purpose

The purpose of the scope of services outlined in TO No. 81 was to provide additional data regarding the nature and extent of soil and groundwater impacts at the Site. In addition, the NCRWQCB requested further investigation in the vicinity of boring B11 (SP) and a determination of the location and/or status of the well MW-4.

2.0 INVESTIGATIVE METHODS

The following scope of services was performed as requested by Caltrans in TO No. 81.

2.1 Pre-field Activities

- Conducted a pre-work site visit with Caltrans representative Doug Coleman and Geocon representatives Dave Bieber and West Bourgault. The purpose of the pre-work site visit was to observe the boring locations, mark locations for Underground Service Alert (USA) and to determine drilling rig accessibility and potential utility conflicts. Representatives of the United States Park Service and the Bureau of Land Management, as well as a Caltrans biologist and a Caltrans archeologist also attended the pre-work site meeting to discuss possible impacts of the work to historically or biologically significant resources.
- Prepared a project-specific *Health and Safety Plan (HSP)* for the Site dated March 27, 2006. The *HSP* provided guidelines on the use of personal protective equipment and the health and safety procedures implemented during the field activities.
- Prepared the *Additional Site Investigation Workplan (Workplan)* dated April 14, 2006. The *Workplan* described the purpose of the soil borings, identified boring locations and field methodologies, and described the laboratory analytical program for the project.
- Retained the services of Gregg Drilling, a Caltrans-approved and California-certified subcontractor, to perform the direct-push sampling activities (C57 License No. 485165).
- Retained the services of Kiff Analytical LLC (Kiff), a Caltrans-approved and California-certified analytical laboratory (ELAP No. 2236), to perform chemical analysis of selected soil and groundwater samples.
- Retained the services of Cruz Brothers Locators, a Caltrans-approved independent pipe and cable locator, to provide additional clearance of boring locations relative to underground utilities.
- Provided the required 48-hour notification to USA prior to job site mobilization (USA Ticket Number 129563).

2.2 Field Activities

Cruz Brothers performed a utility survey on April 24, 2006, using pipe and cable locating equipment to clear each boring location. Cruz Brothers additionally performed a magnetic survey within a 15-foot radius of the suspected location of well MW-4 (based on measurements from existing buildings). The documented location of well MW-4 is in the asphalt drive area of the Site as depicted on Photo 1.

Three soil borings, B11(MS) through B13(MS), were advanced at the Site on April 24, 2006, to an approximate depth of 12 ft bgs to facilitate the collection of soil and groundwater samples utilizing a truck mounted direct-push rig. Soil samples were collected from each soil boring utilizing a hydraulically driven 4-foot-long soil sampler equipped with plastic liner sample tubes to facilitate sample handling and storage. Following retrieval of the sampler, the sample tube was cut at the desired sampling depth, capped with Teflon™ sheets and plastic end caps, labeled, chilled, and transported to

Kiff following standard chain-of-custody (COC) protocol. The approximate soil boring locations are depicted on Figure 3.

Each soil boring was logged in the field utilizing the Unified Soil Classification System (USCS) by a geologist under the direction of a California Professional Geologist. Boring logs indicating the soil and geologic conditions encountered and sample locations are presented in Appendix A. Soil samples were generally collected at 4-foot depth intervals in each boring. A portion of each soil sample was field screened with a photo-ionization detector (PID) to qualitatively assess the presence of volatile organic compounds.

A grab groundwater sample was collected from each boring by placing a 3/4-inch-diameter polyvinyl chloride (PVC) casing with a 10-foot section of 0.010-inch slotted screen into the boring. The sample was collected using a small-diameter stainless steel bailer lowered within the casing. The groundwater samples were transferred from the bailer to the appropriate laboratory-provided containers. Following the collection of the groundwater samples, the containers were labeled and placed in a chilled cooler pending delivery to Kiff following standard COC protocol. Each boring was backfilled with cement slurry.

Quality assurance/quality control (QA/QC) procedures utilized during the field activities included decontaminating the probe rods prior to the advancement of the borings and decontamination of the sampling equipment prior to, and following, each use. Decontamination consisted of washing the equipment in an Alconox[®] solution, followed by fresh water and distilled water rinse.

2.3 Laboratory Analyses

The soil and groundwater samples were analyzed by Kiff under standard turn-around time by the following methods:

- TPHg; benzene, toluene, ethylbenzene and total xylenes (BTEX); and MTBE following United States Environmental Protection Agency (EPA) Test Method 8260B.
- TPHd (using silica gel cleanup) following EPA Test Method 8015B Modified.

2.4 Quality Assurance and Quality Control Procedures

QA/QC measures were performed for each method of analysis with specificity for each analyte listed in the test method's QA/QC. QA/QC measures included the following:

- One method blank for every ten samples, batch of samples or type of matrix, whichever was more frequent.

- One sample analyzed in duplicate for every ten samples, batch of samples or type of matrix, whichever was more frequent.
- One spiked sample for every ten samples, batch of samples or type of matrix, whichever was more frequent, with spike made at ten times the detection limit or at the analyte level.

Prior to submitting the soil and groundwater samples to the laboratory, the COC documentation was reviewed for accuracy and completeness. Reproductions of the laboratory reports and COC documentation are presented in Appendix B.

3.0 INVESTIGATION RESULTS AND FIELD OBSERVATIONS

Soil and groundwater analytical results are discussed below along with observations made in the field.

3.1 Boring Location Rationale

Borings B11(MS) through B13(MS) were performed downgradient of the former USTs (based on the groundwater gradients calculated from the former monitoring wells). Borings B11(MS) and B12(MS) were placed south of the southeast corner of the remedial soil excavation limits. Boring B13(MS) was placed near the southeast corner of the equipment building, approximately 40 ft southeast of the originally proposed location, based on a MTBE detection in the grab groundwater sample from boring B7(MS) performed in 1998.

3.2 Soil and Hydrogeologic Conditions

The subsurface materials encountered during this additional site investigation generally consisted of fine to coarse sand. The distribution and stratigraphic orientation of these materials are interpreted to represent transgressive and regressive stratigraphic sequences of near-shore lacustrine deposits of ancient Klamath Lake. Copies of the boring logs are presented in Appendix A. No apparent petroleum hydrocarbon soil impacts (odor, discoloration and/or PID readings) were observed during field activities for borings B11(MS) through B13(MS).

Groundwater was encountered during the field sampling activities in borings B11(MS) through B13(MS) at depths between 7.2 and 8.0 ft bgs.

3.3 Soil Analytical Results

The soil sample collected from 4 ft bgs in each boring was submitted for analyses. TPHg, TPHd, BTEX and MTBE were not reported above their respective laboratory reporting limits for the three soil samples submitted for analyses.

The soil sample analytical results are summarized on Table 3. Laboratory reports and COC documentation are presented in Appendix B.

3.4 Groundwater Analytical Results

TPHd was reported for each of the groundwater samples collected from borings B11(MS) through B13(MS) at respective concentrations of 5.1, 16 and 0.4 mg/l. The laboratory Case Narrative accompanying the analytical report stated, "Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples B11-GW, B12-GW and B13-GW. These hydrocarbons are higher boiling than typical diesel fuel." TPHg, BTEX and MTBE were not reported

above their respective laboratory reporting limits for the three samples. The laboratory results for the groundwater samples are summarized on Table 4. Laboratory reports and COC documentation are presented in Appendix B.

3.5 Laboratory QA/QC

We reviewed the analytical laboratory QA/QC provided with the laboratory report. The data show acceptable surrogate recoveries and non-detect results for the method blanks, and acceptable recoveries and relative percent differences for the matrix spikes and matrix spike duplicates (MS/MSDs) with the exception of the April 28, 2006, MS/MSDs for MTBE and tert-butanol (TBA). Appropriate recoveries were noted for the laboratory control samples. Kiff addresses the high MTBE and TBA MS/MSD recoveries in the Case Narrative accompanying the analytical report. The case narrative states, "Matrix Spike/Matrix Spike Duplicate Results associated with samples B11-GW(MS) and B13-GW(MS) for the analytes Tert-Butanol and Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample." Because MTBE was not reported for any of the six samples submitted, no qualifications of the data presented herein are necessary, and the data are of sufficient quality for the purposes of this report.

4.0 CONCLUSIONS AND RECOMMENDATIONS

TPHg, TPHd, BTEX and MTBE were not reported above the laboratory method detection limit for the three soil samples submitted for analyses. TPHd was reported at respective concentrations of 5.1, 16 and 0.4 mg/l for each of the grab groundwater samples collected from borings B11(MS) through B13(MS). However, the laboratory noted that these TPHd detections did not exhibit a typical diesel chromatographic pattern and were higher boiling than typical diesel fuel. TPHg, BTEX and MTBE were not reported above the laboratory method detection limits for any of the grab groundwater samples collected. Historical grab groundwater results collected from borings downgradient of the Site (1998 soil borings performed by Geocon) and upgradient of the Site at the Motor Pool Area (2002 soil borings performed by Geocon) have reported similar low level TPHd concentrations. The source or sources for low level TPHd impacts are unknown but may be associated with historical operations conducted at the Site or Motor Pool Area. Shallow groundwater conditions (less than 10 ft bgs) combined with permeable sands make it likely that any historic surface spills or surface application of oil would migrate to groundwater.

A magnetic survey was performed at the documented location of well MW-4. Based on the lack of an identified metallic well cover and the documented location of the well on the edge of the 1992 remedial soil excavation, well MW-4 was likely destroyed along with the other former onsite monitoring wells.

As reported in the *Supplemental Site Investigation Report*, prepared by Geocon, dated December 7, 1998, information provided by the Newell County Water District indicates that local water service is provided by municipal water wells. The water system consists of three production wells located upgradient of the Site on the west side of State Highway 139. The wells are screened at depths greater than 200 ft bgs.

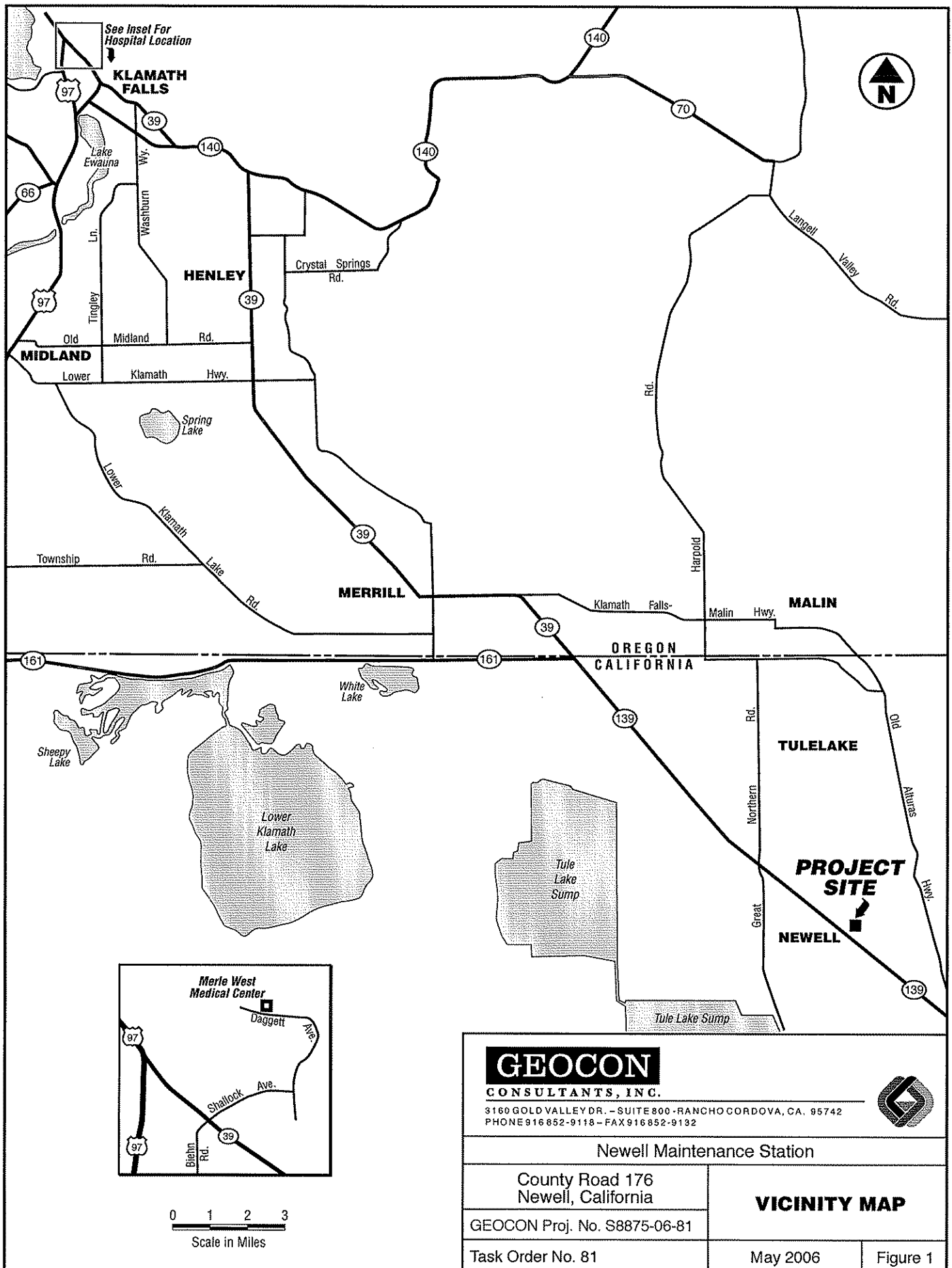
Based on the relatively low dissolved-phase petroleum hydrocarbon concentrations, the lack of benzene or MTBE detections, the completed "source removal" activities performed to date, and the apparent lack of onsite and/or downgradient potable water supply wells, the Site should be considered as a candidate for low risk closure pending the results of the additional investigation activities in the vicinity of boring B11(SP). Additional proposed investigation activities in the vicinity of boring B11(SP) will be performed following the completion of the Archeological Study.

5.0 REPORT LIMITATIONS

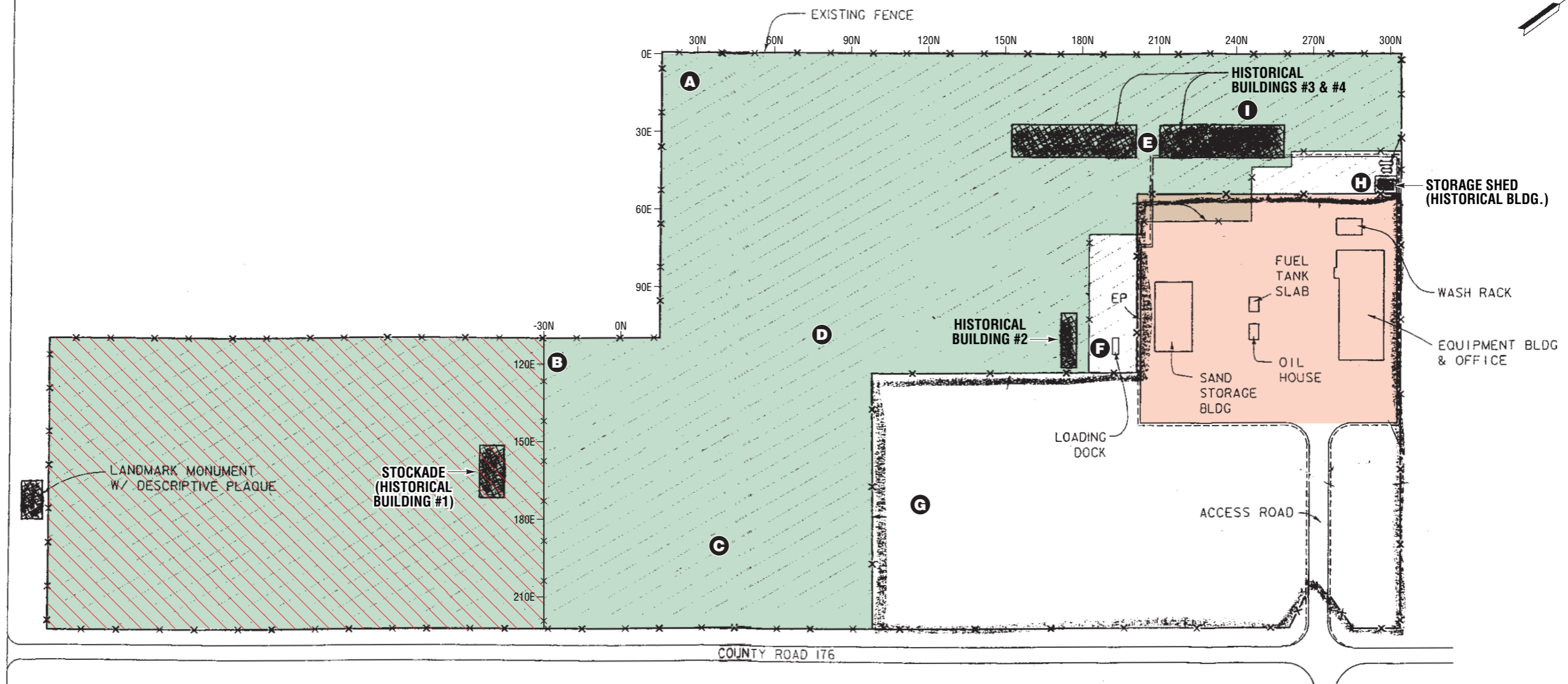
This report has been prepared exclusively for Caltrans. The information contained herein is only valid as of the date of the report.

The client should recognize that this report is not a comprehensive site characterization and should not be construed as such. The governing county agencies and/or other regulatory agencies may require additional soil and/or groundwater sampling. The findings as presented in this report are predicated on the results of the limited sampling and laboratory testing performed. In addition, the information obtained is not intended to address potential impacts related to sources other than those specified herein.

Therefore, the report should only be deemed conclusive with respect to the information obtained. No guarantee or warranty of the results of the report is implied within the intent of this report or any subsequent reports, correspondence or consultation either expressed or implied. Geocon strived to perform the services summarized herein in accordance with the local standard of care in the geographic region at the time the services were rendered.

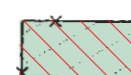





ROUTE 139



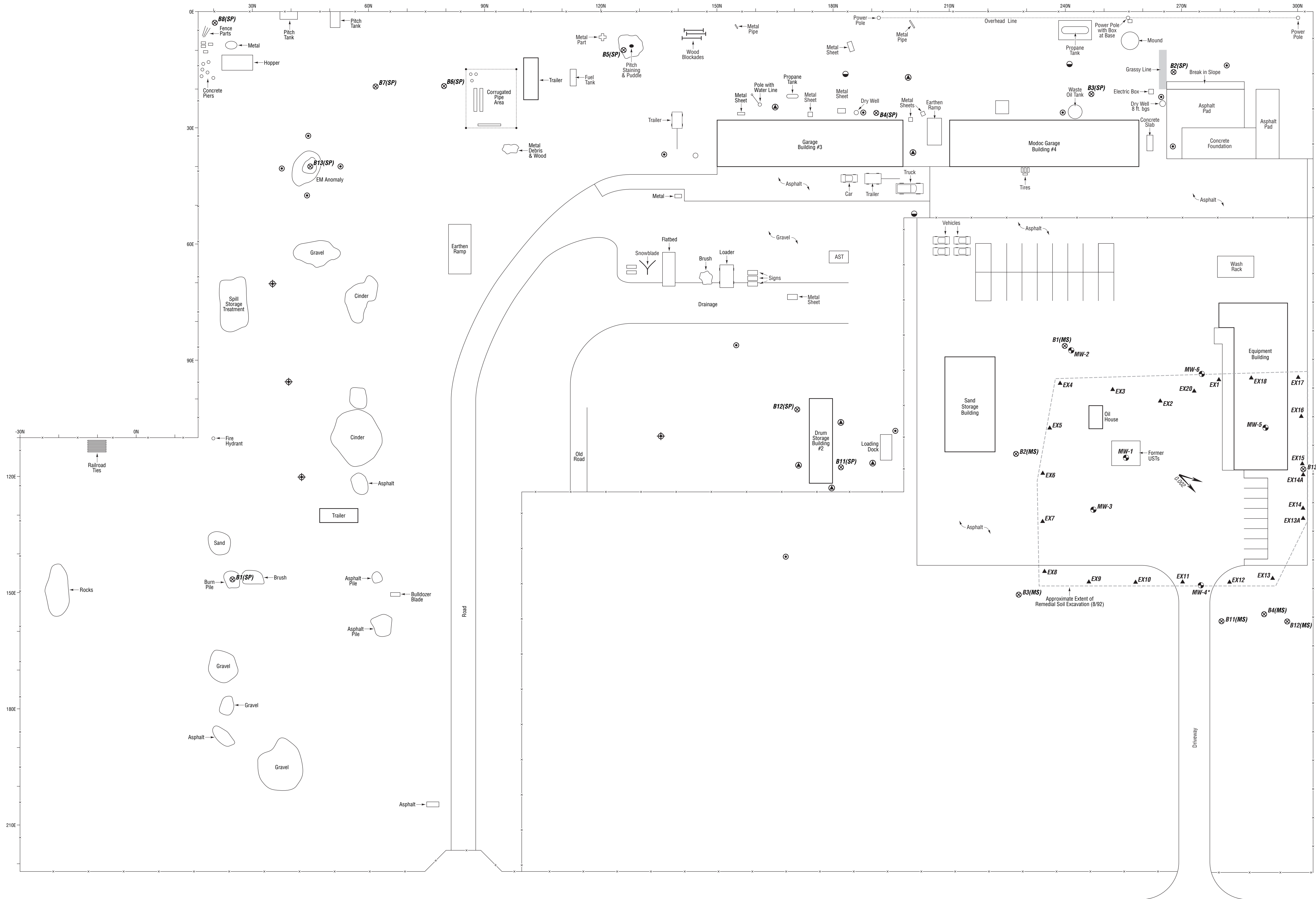
LEGEND:

- A** DEBRIS PILE
- B** RAILROAD TIES
- C** ROAD MATERIAL STOCKPILES
- D** OIL STAINED FIELD
- E** PORTABLE SHED
- F** EMULSION LOADING DOCK
- G** GRAVEL
- H** HAZARDOUS MATERIALS SHED
- I** BEHIND MODOC COUNTY GARAGE

-  SURPLUS PROPERTY NOT PREVIOUSLY USED BY CALTRANS
-  HISTORICALLY SIGNIFICANT BUILDINGS
-  SURPLUS PROPERTY AREA
-  NEWELL MAINTENANCE STATION



GEOCON CONSULTANTS, INC. 3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742 PHONE 916 852-9118 - FAX 916 852-9132		
Newell Maintenance Station		
County Road 176 Newell, California		HISTORICAL FACILITY MAP
GEOCON Proj. No. S8875-06-81		
Task Order No. 81		May 2006
		Figure 2



LEGEND:

- B1(MS)** ⊗ Approximate Soil Boring Location Performed at Newell Maintenance Station (MS)
- B1(SP)** ⊗ Approximate Soil Boring Location Performed at Surplus Property (SP)
- ⊙ Proposed Hand-Auger (Surface Sample)
- ⊙ Approximate Former Monitoring Well Location
- ⊙ Proposed Soil Boring (Direct-Push)
- ⊙ Proposed Temp Well
- ⊕ Magnetic Point Anomaly
- EX1** ▲ Approximate Remedial Excavation Confirmation Soil Sample Location
- ↖ 0.002 Historical Groundwater Flow Direction & Gradient (March & June 1992)
- Fence
- Potentially Not Abandoned

COUNTY ROAD 176



GEOCON CONSULTANTS, INC. 3180 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742 PHONE 916 852-9118 - FAX 916 852-9132		
Newell Maintenance Station		
County Road 176 Newell, California		AREA MAP
GEOCON Proj. No. S8875-06-81		
Task Order No. 81	May 2006	Figure 3

TABLE 1
SUMMARY OF HISTORICAL GROUNDWATER ANALYTICAL RESULTS
NEWELL MAINTENANCE STATION
MODOC COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TPHg (µg/l)	TPHd (µg/l)	BENZENE (µg/l)	TOLUENE (µg/l)	ETHYLBENZENE (µg/l)	TOTAL XYLENES (µg/l)	ORGANIC LEAD (µg/l)	HVO (µg/l)
MW-1	3/19/92	16,000	2,500	1,000	2,200	230	2,300	<100	ND
MW-1	6/30/92	4,300	4,000	190	160	<20	530	<100	ND
MW-2	3/19/92	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	ND
MW-2	6/30/92	<50	82	<0.5	<0.5	<0.5	<0.5	<100	ND
MW-3	3/19/92	71	<50	0.7	1.3	<0.5	2.1	<100	ND
MW-3	6/30/92	69	<50	<0.5	0.7	2.5	<0.5	<100	ND
MW-4	3/19/92	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	ND
MW-4	6/30/92	<50	120	<0.5	<0.5	<0.5	<0.5	<100	ND
MW-5	3/19/92	<50	240	<0.5	<0.5	<0.5	<0.5	<100	ND
MW-5	6/30/92	<50	310	<0.5	<0.5	<0.5	<0.5	<100	ND
MW-6	3/19/92	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	ND
MW-6	6/30/92	<50	<50	<0.5	<0.5	<0.5	<0.5	<100	ND

Notes: TPHg = Total petroleum hydrocarbons as gasoline
TPHd = Total petroleum hydrocarbons as diesel
HVO = Halogenated Volatile Organic Compounds
µg/l = Micrograms per liter
ND = Not detected
< = Less than laboratory test method detection limits

TABLE 2
SUMMARY OF ANALYTICAL RESULTS FOR EXCAVATION CONFIRMATION SOIL SAMPLES
NEWELL MAINTENANCE STATION
MODOC COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	SAMPLE DEPTH (feet)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL LEAD (mg/kg)
EX1	8/4/92	5.74	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX2	8/4/92	10.50	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX3	8/4/92	10.50	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX4	8/4/92	9.84	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX5	8/4/92	10.50	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX6	8/4/92	11.15	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX7	8/4/92	11.15	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX8	8/4/92	11.15	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX9	8/4/92	10.50	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX10	8/4/92	10.50	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	5.4
EX11	8/11/92	9.84	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX12	8/11/92	9.84	<0.5	<10	28	<0.5	<0.5	<0.5	<0.5	<5.0
EX13	8/11/92	9.84	<0.5	<10	11	<0.5	<0.5	<0.5	<0.5	<5.0
EX13A	8/11/92	9.51	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX14	8/11/92	9.84	10 ¹	48	<10	0.0059	0.010	<0.5	0.0078	<5.0
EX14A	8/11/92	9.51	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX15	8/11/92	9.84	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX16	8/11/92	9.84	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX17	8/11/92	9.84	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX18	8/11/92	9.84	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0
EX20	8/11/92	8.86	<0.5	<10	<10	<0.5	<0.5	<0.5	<0.5	<5.0

TABLE 2
 SUMMARY OF ANALYTICAL RESULTS FOR EXCAVATION CONFIRMATION SOIL SAMPLES
 NEWELL MAINTENANCE STATION
 MODOC COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	SAMPLE DEPTH (feet)	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYLBENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	TOTAL LEAD (mg/kg)
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Notes:

TPHg = Total petroleum hydrocarbons as gasoline
 TPHd = Total petroleum hydrocarbons as diesel
 TPHmo = Total petroleum hydrocarbons as motor oil
 mg/kg = Milligrams per kilogram
 < = Less than laboratory test method detection limits
 † = Laboratory notation, "Product is not typical gasoline."

TABLE 3
SUMMARY OF SOIL ANALYTICAL RESULTS
NEWELL MAINTENANCE STATION
MODOC COUNTY, CALIFORNIA

SAMPLE I.D.	SAMPLE DATE	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	BENZENE (µg/kg)	TOLUENE (µg/kg)	ETHYLBENZENE (µg/kg)	TOTAL XYLENES (µg/kg)	MTBE (µg/kg)
1998 Direct-Push Borings									
B1-10 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	5.9	---
B2-5 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	9.0	---
B3-5 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	---
B4-5 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	---
B5-5 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	---
B6-5 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	---
B7-10 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	8.7	71	---
B8-7 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	---
B9-7 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	6.7 ⁴	---
B10-7 (MS)	9/22/98	<1.0	<1.0	<1.0	<5.0	<5.0	<5.0	<5.0	---
2006 Direct-Push Borings									
B11-4 (MS)	4/24/06	<1.0	<1.0	---	<5.0	<5.0	<5.0	<5.0	<5.0
B12-4 (MS)	4/24/06	<1.0	<1.0	---	<5.0	<5.0	<5.0	<5.0	<5.0
B13-4 (MS)	4/24/06	<1.0	<1.0	---	<5.0	<5.0	<5.0	<5.0	<5.0

Notes:

TPHg =	Total petroleum hydrocarbons as gasoline
TPHd =	Total petroleum hydrocarbons as diesel
TPHBo =	Total petroleum hydrocarbons as motor oil
MTBE =	Methyl tert-butyl ether
mg/kg =	Milligrams per kilogram
µg/kg =	Micrograms per kilogram
< =	Less than laboratory test method detection limits
---	Not analyzed

BI-5 (MS)

_____ Boring performed at the Caltrans Newell Maintenance Station

_____ Sample depth in feet below surface grade

_____ Boring Identification

TABLE 4
SUMMARY OF GROUNDWATER ANALYTICAL RESULTS
NEWELL MAINTENANCE STATION
MODOC COUNTY, CALIFORNIA

SAMPLE ID.	SAMPLE DATE	TPHg (mg/l)	TPHd (mg/l)	TPHmo (mg/l)	BENZENE (µg/l)	TOLUENE (µg/l)	ETHYLBENZENE (µg/l)	TOTAL XYLENES (µg/l)	MTBE (µg/l)
1998 Direct-Push Borings									
B1-W (MS)	9/22/98	<0.05	1.5 ¹	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
B1-W (MS)	11/3/98	---	0.2 ²	---	---	---	---	---	---
B2-W (MS)	9/22/98	<0.05	1.6 ¹	<0.05	<0.5	<0.5	<0.5	0.7	<0.5
B3-W (MS)	9/22/98	<0.05	1.6 ¹	<0.05	<0.5	<0.5	<0.5	0.9	<0.5
B3-W (MS)	11/3/98	---	0.1 ²	---	---	---	---	---	---
B4-W (MS)	9/22/98	0.2	1.7 ¹	<0.05	<0.5	16	8.2	41	<0.5
B4-W (MS)	11/3/98	---	0.1 ²	---	---	---	---	---	---
B5-W (MS)	9/22/98	<0.05	1.4 ¹	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
B5-W (MS)	11/3/98	---	0.08 ²	---	---	---	---	---	---
B6-W (MS)	9/22/98	<0.05	1.6 ¹	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
B6-W (MS)	11/3/98	---	0.09 ²	---	---	---	---	---	---
B7-W (MS)	9/22/98	<0.05	1.6 ¹	<0.05	<0.5	<0.5	<0.5	<0.5	4.3
B7-W (MS)	11/3/98	---	0.09 ²	---	---	---	---	---	---
B8-W (MS)	9/22/98	<0.05	1.6 ¹	<0.05	<0.5	<0.5	<0.5	<0.5	<0.5
B8-W (MS)	11/3/98	---	0.08 ²	---	---	---	---	---	---
B9-W (MS)	9/22/98	<0.05	1.5 ¹	<0.05	<0.5	0.7	<0.5	0.9	<0.5
B9-W (MS)	11/3/98	---	0.07 ²	---	---	---	---	---	---
B10-W (MS)	9/22/98	<0.05	1.8 ¹	<0.05	<0.5	<0.5	<0.5	<0.5	3.4
B10-W (MS)	11/3/98	---	0.08 ²	---	---	---	---	---	---
2006 Direct-Push Borings									
B11-GW (MS)	4/24/06	<0.05	5.1 ³	---	<0.5	<0.5	<0.5	<0.5	<0.5
B12-GW (MS)	4/24/06	<0.05	16 ³	---	<0.5	<0.5	<0.5	<0.5	<0.5
B13-GW (MS)	4/24/06	<0.05	0.4 ³	---	<0.5	<0.5	<0.5	<0.5	<0.5

SAMPLE I.D.	SAMPLE DATE	TPHg (mg/l)	TPHd (mg/l)	TPHmo (mg/l)	BENZENE (µg/l)	TOLUENE (µg/l)	ETHYLBENZENE (µg/l)	TOTAL XYLENES (µg/l)	MTBE (µg/l)
-------------	-------------	----------------	----------------	-----------------	-------------------	-------------------	------------------------	-------------------------	----------------

TPH_g = Total petroleum hydrocarbons as gasoline
 TPH_h = Total petroleum hydrocarbons as diesel
 TPH_m = Total petroleum hydrocarbons as motor oil
 MTBE = Methyl tert-butyl ether
 mg/l = Milligrams per liter
 µg/l = Micrograms per liter
 < = Less than laboratory test method detection limits
 — = Not analyzed

(MS) = Boring performed at the Caltrans Newell Maintenance Station

^b = Laboratory contamination, analyte present with Method Blank

2 = Laboratory contamination, analyte present with reagent blank

— = Laboratory report notation. Sample contains hydrocarbons that do not match diesel or fuel oil. However, quantitation is based on diesel standard.

BI-5 (MS)

_____ Boring performed at the Caltrans Newell Maintenance Station
 _____ Sample depth in feet below surface grade
 _____ Boring Identification



↑
Suspected Location
of Well MW-4

SITE PHOTO NO. 1

GEOCON
CONSULTANTS, INC.

3160 GOLD VALLEY DR. - SUITE 800 - RANCHO CORDOVA, CA. 95742
PHONE 916 852-9118 - FAX 916 852-9132



Newell Maintenance Station

GEOCON Proj. No. S8875-06-81

County Road 176
Newell, California

Task Order No. 81

May 2006

APPENDIX

A

PROJECT NO. S8875-06-81


DEPTH IN FEET	PENETRAT. RESIST. BLOWS/FT.	SAMPLE NO.	LITHOLOGY	BORING NO. B11 (MS)		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED	WATER LEVEL (ATD)		
				4/24/2006	8.0'		
				EQUIPMENT	POWERPROBE	DRILLER	GREGG DRILLING
				SOIL DESCRIPTION			
1				FILL GRAVEL/cinders - 1/4-1/2" diameter		GP	
2				ALLUVIUM		SM	
3				Loose, dry to slightly moist, dark reddish brown, fine to coarse			
4				SAND with silt			
5		B11-4 1315					0
6							
7							
8		B11-8 1321					0
9							
10							
11				- saturated			
12		B11-12 1325		BORING TERMINATED AT 12 FEET			0

Figure 1, Log of Boring B11 (MS), page 1 of 1

ENV_NO_WELL NEWELL BORINGS.GPJ 05/30/06

BORING ELEVATION:

ENGINEER/GEOLOGIST:

WEST BOURGAULT

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8875-06-81






DEPTH IN FEET	PENETRAT. RESIST. BLOWS/FT.	SAMPLE NO.	LITHOLOGY	BORING NO. B12 (MS)		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED	WATER LEVEL (ATD)		
				4/24/2006	7.2'		
				EQUIPMENT	POWERPROBE	DRILLER GREGG DRILLING	
				SOIL DESCRIPTION			
1				FILL GRAVEL/cinders - 1/4-1/2" diameter		GP	
2				ALLUVIUM Dense, slightly moist, light brown, Silty fine SAND		SM	
3							
4		B12-4 1343		Dense, moist, dark brown, fine to coarse SAND with silt		SM	0
5							
6							
7							
8		B12-8 1346		- saturated			0
9							
10							
11							
12		B12-12 1351		Dense, moist, light brown, Silty fine SAND BORING TERMINATED AT 12 FEET		SM	0

Figure 2, Log of Boring B12 (MS), page 1 of 1

ENV_NO_WELL NEWELL BORINGS.GPJ 05/30/06

BORING ELEVATION:

ENGINEER/GEOLOGIST: WEST BOURGAULT

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

PROJECT NO. S8875-06-81

DEPTH IN FEET	PENETRAT. RESIST. BLOWS/FT.	SAMPLE NO.	LITHOLOGY	BORING NO. B13 (MS)		SOIL (USCS)	HEADSPACE (PPM)
				DATE DRILLED 4/24/2006	WATER LEVEL (ATD) 7.5'		
				EQUIPMENT POWERPROBE DRILLER GREGG DRILLING			
				SOIL DESCRIPTION			
1				FILL		GP	
2				GRAVEL/cinders - 1/4-1/2" diameter		SM	
3				ALLUVIUM			
4				Dense, slightly moist, light brown, Silty fine SAND			
5		B13-4 1403					0
6							
7				▼ Dense, moist, dark brown, fine to coarse SAND		SM	0
8		B13-8 1406					
9							
10				- saturated			
11							
12		B13-12 1410		Dense, moist, light brown, Silty fine SAND		SM	0
				BORING TERMINATED AT 12 FEET			

Figure 3, Log of Boring B13 (MS), page 1 of 1

ENV_NO_WELL NEWELL BORINGS.GPJ 05/30/06

BORING ELEVATION:

ENGINEER/GEOLOGIST:

WEST BOURGAULT

NOTE: THE LOG OF SUBSURFACE CONDITIONS SHOWN HEREON APPLIES ONLY AT THE SPECIFIC BORING OR TRENCH LOCATION AND AT THE DATE INDICATED. IT IS NOT WARRANTED TO BE REPRESENTATIVE OF SUBSURFACE CONDITIONS AT OTHER LOCATIONS AND TIMES.

APPENDIX

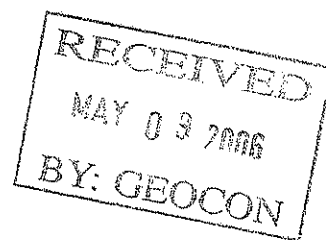
**B**



Report Number : 49683

Date : 5/3/2006

West Bourgault
Geocon Consultants, Inc.
3160 Gold Valley Road, Suite 800
Rancho Cordova, CA 95742



Subject : 3 Soil Samples and 3 Water Samples
Project Name : Newell MS
Project Number : S8875-06-81

Dear Mr. Bourgault,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,



Jbel Kiff



Report Number : 49683

Date : 5/3/2006

Subject : 3 Soil Samples and 3 Water Samples
Project Name : Newell MS
Project Number : S8875-06-81

Case Narrative

Matrix Spike/Matrix Spike Duplicate Results associated with samples B11-GW and B13-GW for the analytes Tert-Butanol and Methyl-t-butyl ether were affected by the analyte concentrations already present in the un-spiked sample.

Hydrocarbons reported as TPH as Diesel do not exhibit a typical Diesel chromatographic pattern for samples B11-GW, B12-GW and B13-GW. These hydrocarbons are higher boiling than typical diesel fuel.

Approved By: _____

Jdel Kiff

Project Name : **Newell MS**

Project Number : **S8875-06-81**

Sample : **B11-4**

Matrix : Soil

Lab Number : 49683-01

Sample Date :4/24/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	4/28/2006
Toluene - d8 (Surr)	101		% Recovery	EPA 8260B	4/28/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	4/28/2006
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	5/2/2006
1-Chlorooctadecane (Silica Gel Surr)	107		% Recovery	M EPA 8015	5/2/2006

Sample : **B12-4**

Matrix : Soil

Lab Number : 49683-04

Sample Date :4/24/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	4/28/2006
Toluene - d8 (Surr)	95.8		% Recovery	EPA 8260B	4/28/2006
4-Bromofluorobenzene (Surr)	114		% Recovery	EPA 8260B	4/28/2006
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	5/2/2006
1-Chlorooctadecane (Silica Gel Surr)	97.6		% Recovery	M EPA 8015	5/2/2006

Approved By:

Joel Kiff



Report Number : 49683

Date : 5/3/2006

Project Name : **Newell MS**Project Number : **S8875-06-81**Sample : **B13-4**

Matrix : Soil

Lab Number : 49683-07

Sample Date :4/24/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	4/28/2006
Toluene - d8 (Surr)	95.5		% Recovery	EPA 8260B	4/28/2006
4-Bromofluorobenzene (Surr)	112		% Recovery	EPA 8260B	4/28/2006
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	5/2/2006
1-Chlorooctadecane (Silica Gel Surr)	109		% Recovery	M EPA 8015	5/2/2006

Sample : **B11-GW**

Matrix : Water

Lab Number : 49683-10

Sample Date :4/24/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	4/28/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/28/2006
Toluene - d8 (Surr)	98.5		% Recovery	EPA 8260B	4/28/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	4/28/2006
TPH as Diesel (Silica Gel)	5100	500	ug/L	M EPA 8015	5/1/2006
Octacosane (Diesel Surrogate)	Diluted Out		% Recovery	M EPA 8015	5/1/2006

Approved By:

Joel Kiff



Report Number : 49683

Date : 5/3/2006

Project Name : **Newell MS**Project Number : **S8875-06-81**Sample : **B12-GW**

Matrix : Water

Lab Number : 49683-11

Sample Date :4/24/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	4/28/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/28/2006
Toluene - d8 (Surr)	96.4		% Recovery	EPA 8260B	4/28/2006
4-Bromofluorobenzene (Surr)	110		% Recovery	EPA 8260B	4/28/2006
TPH as Diesel (Silica Gel)	16000	2000	ug/L	M EPA 8015	5/1/2006
Octacosane (Diesel Surrogate)	88.0		% Recovery	M EPA 8015	5/1/2006

Sample : **B13-GW**

Matrix : Water

Lab Number : 49683-12

Sample Date :4/24/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	4/28/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/28/2006
Toluene - d8 (Surr)	97.6		% Recovery	EPA 8260B	4/28/2006
4-Bromofluorobenzene (Surr)	101		% Recovery	EPA 8260B	4/28/2006
TPH as Diesel (Silica Gel)	400	50	ug/L	M EPA 8015	5/2/2006
Octacosane (Diesel Surrogate)	104		% Recovery	M EPA 8015	5/2/2006

Approved By:

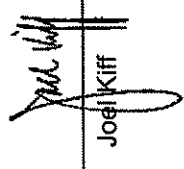
Joel Kiff

Report Number : 49683
Date : 5/3/2006

QC Report : Method Blank Data
Project Name : Newell MS
Project Number : S8875-06-81

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel (Silica Gel)	< 1.0	1.0	mg/Kg	M EPA 8015	5/2/2006
1-Chlorooctadecane (Silica Gel Surr)	96.1		%	M EPA 8015	5/2/2006
TPH as Diesel (Silica Gel)	< 50	50	ug/L	M EPA 8015	5/1/2006
Octacosane (Diesel Surrogate)	102		%	M EPA 8015	5/1/2006
Benzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Toluene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Ethylbenzene	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Total Xylenes	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
Methyl-t-butyl ether (MTBE)	< 0.0050	0.0050	mg/Kg	EPA 8260B	4/28/2006
TPH as Gasoline	< 1.0	1.0	mg/Kg	EPA 8260B	4/28/2006
Toluene - d8 (Surr)	101		%	EPA 8260B	4/28/2006
4-Bromofluorobenzene (Surr)	99.9		%	EPA 8260B	4/28/2006
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	4/28/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/28/2006
Toluene - d8 (Surr)	96.3		%	EPA 8260B	4/28/2006
4-Bromofluorobenzene (Surr)	108		%	EPA 8260B	4/28/2006

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Toluene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Ethylbenzene	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Total Xylenes	< 0.50	0.50	ug/L	EPA 8260B	4/28/2006
Methyl-t-butyl ether (MTBE)	< 5.0	5.0	ug/L	EPA 8260B	4/28/2006
TPH as Gasoline	< 50	50	ug/L	EPA 8260B	4/28/2006
Toluene - d8 (Surr)	98.1		%	EPA 8260B	4/28/2006
4-Bromofluorobenzene (Surr)	100		%	EPA 8260B	4/28/2006

Approved By:  Joel Kiff

KIFF ANALYTICAL, LLC
2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 49683

Date : 5/3/2006

QC Report : Matrix Spike/ Matrix Spike Duplicate

Project Name : **Newell MS**

Project Number : **S8875-06-81**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Benzene	49683-01	<0.0050	0.0390	0.0388	0.0362	0.0369	mg/Kg	EPA 8260B	4/28/06	92.9	95.1	2.36	70-130	25
Toluene	49683-01	<0.0050	0.0390	0.0388	0.0368	0.0371	mg/Kg	EPA 8260B	4/28/06	94.3	95.6	1.38	70-130	25
Tert-Butanol	49683-01	<0.0050	0.195	0.194	0.163	0.160	mg/Kg	EPA 8260B	4/28/06	83.6	82.3	1.56	70-130	25
Methyl-t-Butyl Ether	49683-01	<0.0050	0.0390	0.0388	0.0315	0.0301	mg/Kg	EPA 8260B	4/28/06	80.7	77.4	4.14	70-130	25
Benzene	49704-05	<0.50	39.8	40.0	39.2	39.5	ug/L	EPA 8260B	4/28/06	98.5	98.8	0.237	70-130	25
Toluene	49704-05	<0.50	39.8	40.0	37.7	37.7	ug/L	EPA 8260B	4/28/06	94.6	94.3	0.318	70-130	25
Tert-Butanol	49704-05	<5.0	199	200	192	188	ug/L	EPA 8260B	4/28/06	96.3	94.2	2.18	70-130	25
Methyl-t-Butyl Ether	49704-05	8.9	39.8	40.0	54.0	53.8	ug/L	EPA 8260B	4/28/06	113	112	0.618	70-130	25
Benzene	49701-04	1.3	40.0	40.0	44.5	43.4	ug/L	EPA 8260B	4/28/06	108	105	2.53	70-130	25
Toluene	49701-04	<0.50	40.0	40.0	40.9	40.3	ug/L	EPA 8260B	4/28/06	102	101	1.65	70-130	25
Tert-Butanol	49701-04	3400	200	200	3650	3440	ug/L	EPA 8260B	4/28/06	95.6	0.00	200	70-130	25
Methyl-t-Butyl Ether	49701-04	180	40.0	40.0	230	219	ug/L	EPA 8260B	4/28/06	113	85.1	28.4	70-130	25
TPH as Diesel	49683-04	<1.0	20.0	20.0	19.7	18.6	mg/Kg	M EPA 8015	5/2/06	98.6	93.2	5.69	60-140	25
TPH as Diesel	Blank	<50	1000	1000	762	826	ug/L	M EPA 8015	5/1/06	76.2	82.6	7.96	70-130	25



Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800

Report Number : 49683

Date : 5/3/2006

QC Report : Laboratory Control Sample (LCS)

Project Name : **Newell MS**

Project Number : **S8875-06-81**

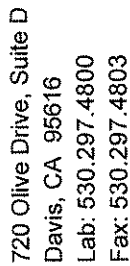
Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	0.0390	mg/Kg	EPA 8260B	4/28/06	98.5	70-130
Toluene	0.0390	mg/Kg	EPA 8260B	4/28/06	100	70-130
Tert-Butanol	0.195	mg/Kg	EPA 8260B	4/28/06	94.4	70-130
Methyl-t-Butyl Ether	0.0390	mg/Kg	EPA 8260B	4/28/06	83.7	70-130
Benzene	40.0	ug/L	EPA 8260B	4/28/06	97.8	70-130
Toluene	40.0	ug/L	EPA 8260B	4/28/06	93.6	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/28/06	93.8	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/28/06	114	70-130
Benzene	40.0	ug/L	EPA 8260B	4/28/06	98.4	70-130
Toluene	40.0	ug/L	EPA 8260B	4/28/06	95.5	70-130
Tert-Butanol	200	ug/L	EPA 8260B	4/28/06	99.6	70-130
Methyl-t-Butyl Ether	40.0	ug/L	EPA 8260B	4/28/06	108	70-130
TPH as Diesel	20.0	mg/Kg	M EPA 8015	5/2/06	92.8	70-130

KIFF ANALYTICAL, LLC

Approved By:

Joel Kiff

2795 2nd St, Suite 300 Davis, CA 95616 530-297-4800



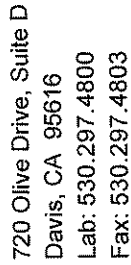
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Chain-of-Custody Record and Analysis Request

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Chain-of-Custody Record and Analysis Request

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